

2030 Target Scoping Plan Update: Public Health Analysis

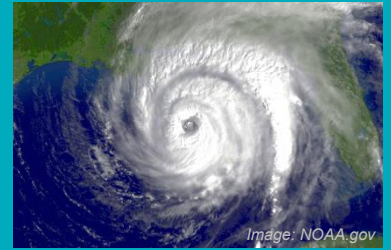
*Climate Change & Health Equity
EJAC Meeting December 21, 2016
Bakersfield*

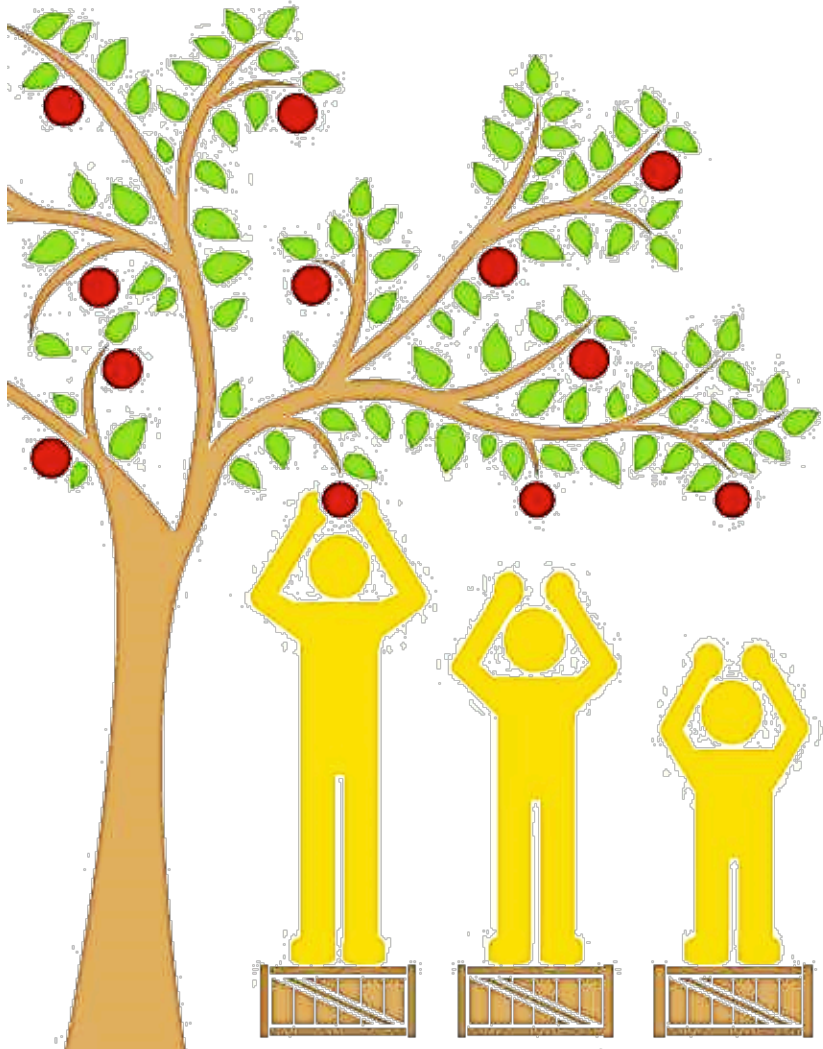
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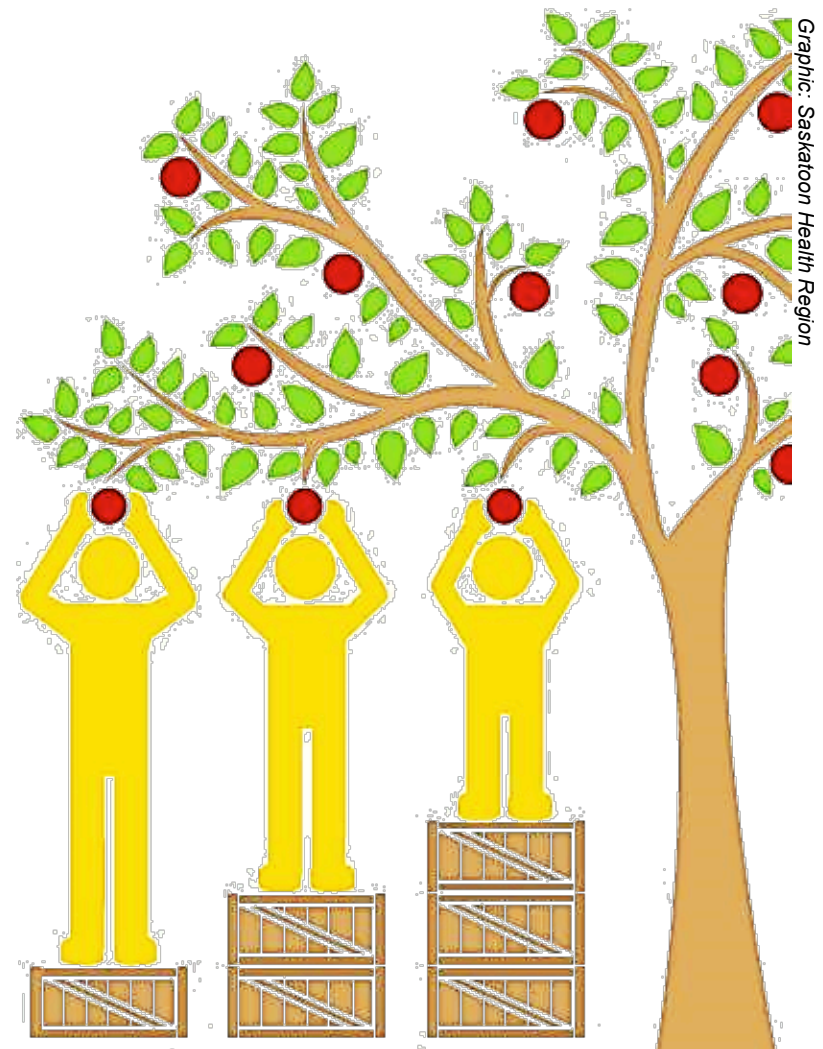
Office of Health Equity
California Department of Public Health





Equality

Everyone has the same

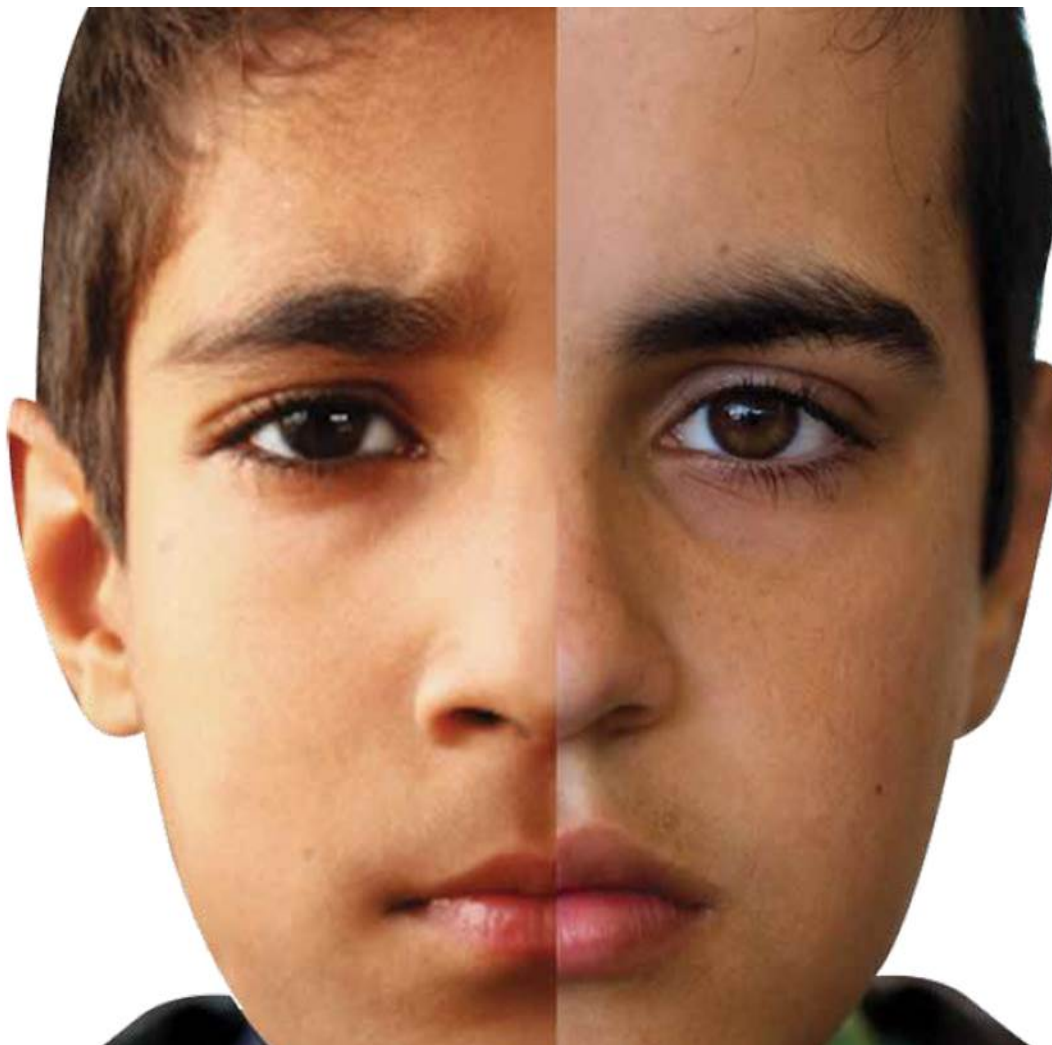


Equity

Everyone has what they need

Health Inequities

STOCKTON
95202
Life Expectancy
73



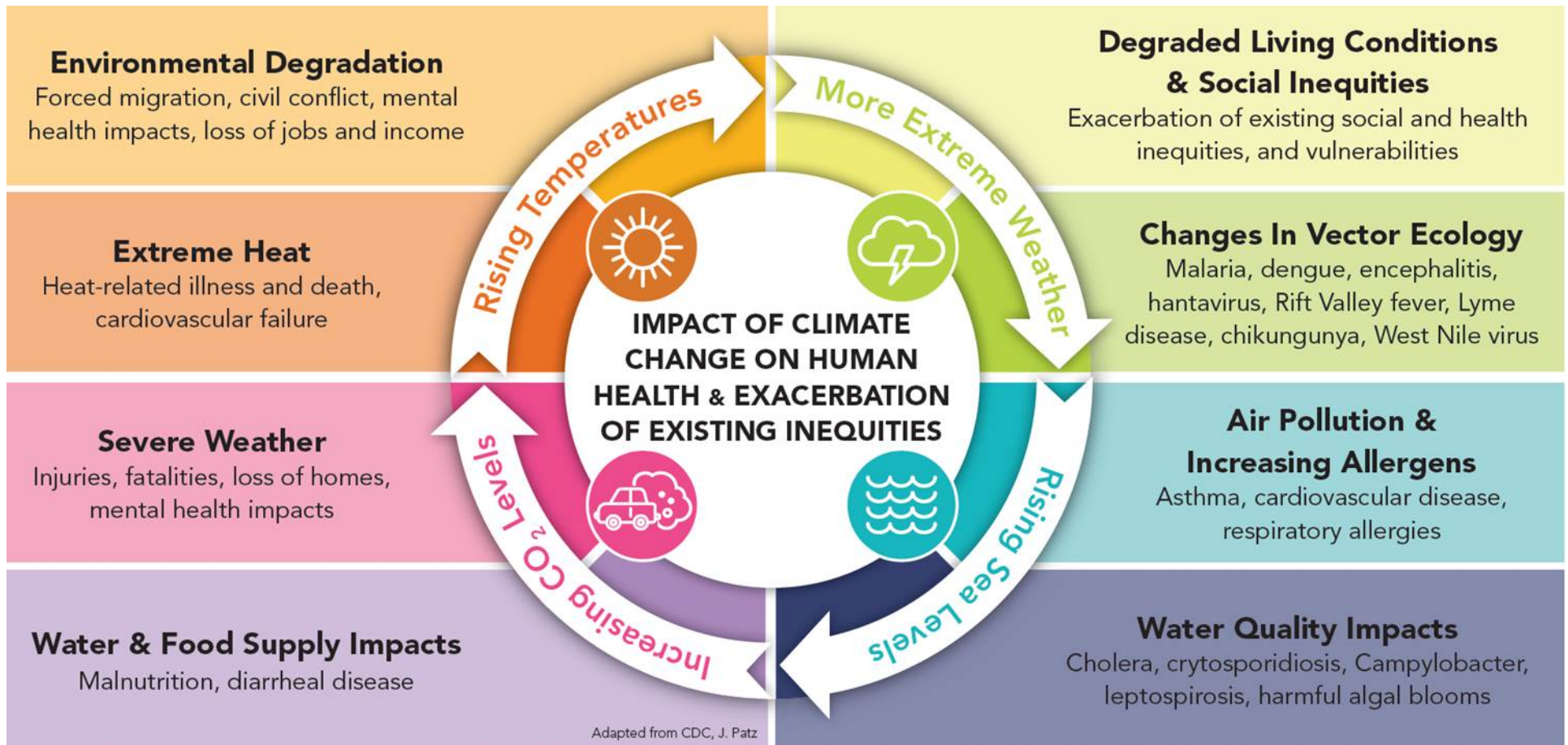
IRVINE
92606
Life Expectancy
88

Source: The California Endowment / www.calendow.org

Addressing the Causes of the Causes



Human Health Impacts of Climate Change



Climate Change & Health Inequities

- Climate change will impact all people, but **the most vulnerable will suffer the most**
- Climate change will **magnify existing health inequities**
- Climate change is a threat multiplier, amplifying existing risks



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Achieving Health Equity through Climate Action

“Tackling climate change could be the **greatest global health opportunity** of the 21st century”

- The Lancet Commission on Health & Climate Change, 2015

Achieving Health Equity through Climate Action

Photo: Huduser.gov/Credit: Dave Adams



Health Impacts of Transportation

- Chronic disease
- Physical activity
- Collision injuries and fatalities
- Stress and mental health
- Greenhouse gases
- Air pollution
- Access to jobs
- Access to services and medical care
- Household expense
- Displacement/gentrification
- Social cohesion

Chronic Disease & Physical Activity

- **8 out of 10 deaths** in California due to chronic disease
- More than **1 in 3** Californians (14 million) living with **at least one chronic condition**, and more than half of this group has **multiple chronic conditions**.
- Many of these chronic diseases would be prevented or lessened if people got more exercise.
- Approximately **23,000 deaths per year from lack of physical activity** in California. This is over 9% of total deaths in CA
- Approximately **3,632 deaths per year from air pollution** in California
- In 2010, California spent **\$98 billion** treating six chronic conditions: **arthritis, asthma, cardiovascular disease, diabetes, cancer, and depression**. This represents **42% of all health care expenditures**.
- Illness and medical bills are **one of the largest causes of personal bankruptcies** in the US.

Analysis of Health Impacts of Increased Walking & Bicycling

1. CalTrans Strategic Management Plan, 2015-2020 (CSMP2020)

- From the 2010 baseline, double the trip mode share of walking and transit and triple that of bicycling by 2020

2. U.S. Surgeon General (USSG) Physical Activity Recommendation, 100%

- Increase active transport so that 50% of California adults get 150 minutes of weekly physical activity from active transport

3. U.S. Surgeon General (USSG) Physical Activity Recommendation, 50%

- Increase active transport so that 50% of California adults get 75 minutes of weekly physical activity from active transport



All Scenarios: ↑ in active transport, ↓ car travel

Each mile of AT offset by 0.5 mile of car travel (50% substitution)

Health Impacts of Increased Walking and Bicycling

	Change in disease burden	Annual change in premature deaths
Cardiovascular Dis.	6% ↓	3,087
Diabetes	7% ↓	436
Depression	2% ↓	<1
Dementia	5% ↓	843
Breast cancer	1% ↓	70
Colon Cancer	2% ↓	95
Road traffic crashes	19% ↑	602

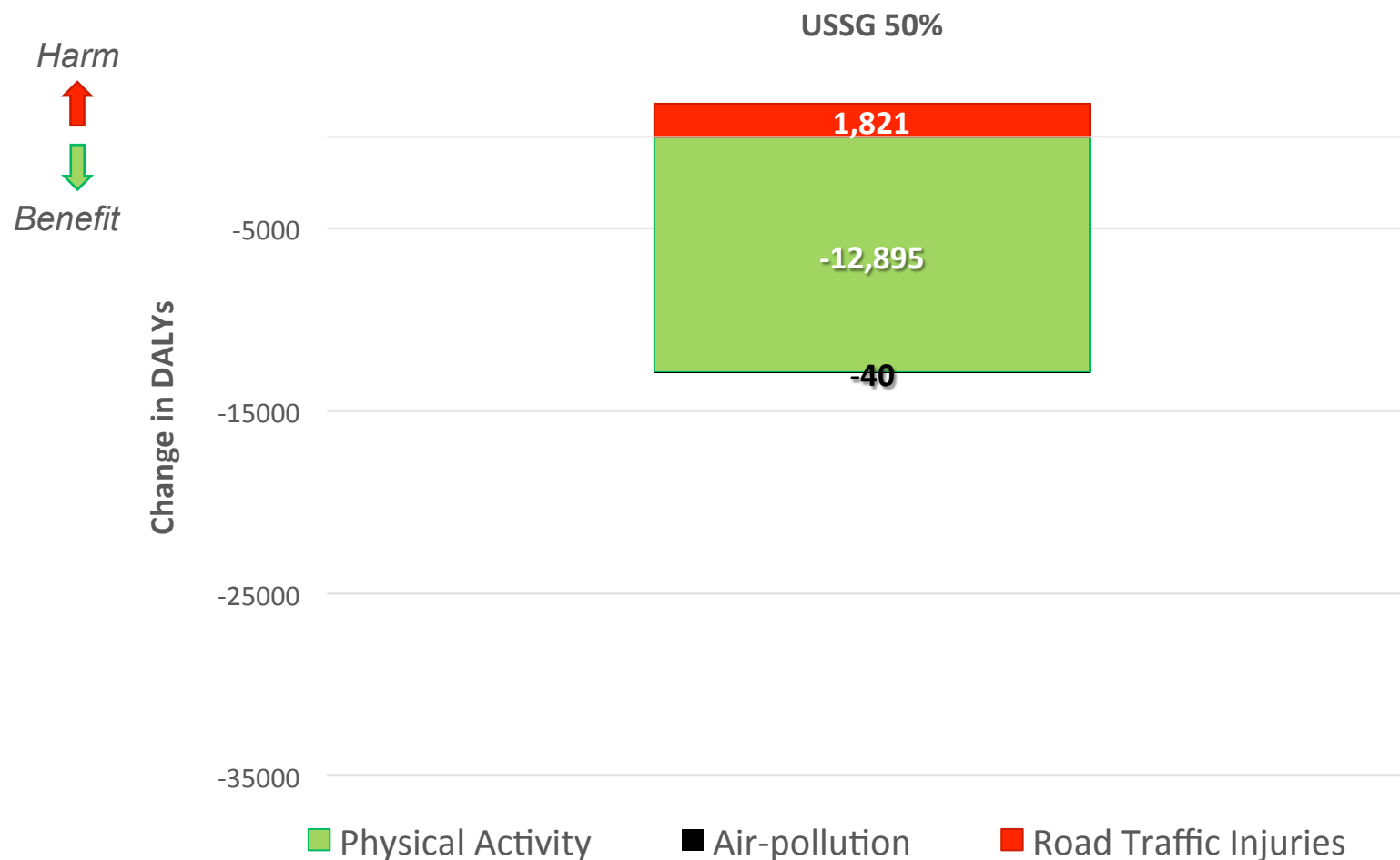
** Reflects USSG 50% scenario.*



- Almost 10% reduction in GHGs from 2010 baseline
- Monetized savings: \$2.4 billion to \$32.4 billion/year

Health Impacts of Increased Walking and Bicycling – Bay Area Example

Active Transport Scenario



Strategies to Increase Transport-Related Physical Activity:

- Bike lanes, paths and sidewalks, esp. separated or protected from traffic
- Traffic calming and narrow lanes to reduce vehicle speeds
- Bike parking, shower and locker facilities at work
- Short blocks, crosswalks, neighborhood shops, street connectivity, bikeway networks
- Higher state spending per capita on bicycle and pedestrian infrastructure
- Car-free city centers
- Perceived pedestrian and bicycle comfort, safety, and convenience



Quality public transit service and access

Strategies to Increase Transport-Related Physical Activity, continued:

- Promotional programs for walking and bicycling
- Density of people, housing, workplaces and intersections
- Transit-oriented development
- Mixed-use developments in already-developed areas, so distances are shorter between daily needs
- Giving employees cash instead of employer-paid parking
- Increased driving costs (parking fees, fuel taxes, road tolls, etc.)

Achieving Health Equity through Climate Action

Land Use and Community Development

- Prioritize compact, **infill and transit-oriented development** and *include necessary anti-displacement measures*



Photo: Huduser.gov/Credit: Bruce Damonte

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Natural and Working Lands

- Encourage **local food systems** and **healthy diets**
- Support sustainable natural and working lands



Achieving Health Equity through Climate Action

Urban and Community Greening

- Green the built environment – provide access to **trees, parks, and green spaces**



Achieving Health Equity through Climate Action

Homes and Buildings

- Create **healthy, energy-efficient, and sustainable homes, schools, and buildings**



Engage communities in decision-making



Achieving Health Equity through Climate Action

Climate Mitigation Policy Priorities – Health & Equity Co-Benefits:

- Direct our climate investments to reduce income inequality and poverty, and promote economic development and health equity
- Prioritize creation of stable, permanent, living-wage jobs and employment training for local residents

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